

**SENIOR STRUCTURAL ENGINEER  
OPEN EXAMINATION - STATEWIDE  
7PB41**

**STATE OF CALIFORNIA  
DEPARTMENT OF GENERAL SERVICES**



**SALARY RANGE: \$7,720 - \$9,379\***  
**FINAL FILING DATE: CONTINUOUS FILING**

**\*RECRUITMENT AND RETENTION PAY DIFFERENTIAL**

In addition to the salary referenced above, the state shall provide a Recruitment and Pay Differential of three hundred dollars (\$300) per month to all employees in the class.

IT IS AN OBJECTIVE OF THE STATE OF CALIFORNIA TO ACHIEVE A DRUG-FREE STATE WORK PLACE. ANY APPLICANT FOR STATE EMPLOYMENT WILL BE EXPECTED TO BEHAVE IN ACCORDANCE WITH THIS OBJECTIVE SINCE USE OF ILLEGAL DRUGS IS INCONSISTENT WITH THE LAW OF THE STATE, THE RULES GOVERNING CIVIL SERVICE AND THE SPECIAL TRUST PLACED IN PUBLIC SERVANTS.

**WHO MAY APPLY**

This is an OPEN STATEWIDE examination for the Department of General Services. Anyone who meets the minimum qualifications as stated below may apply. Applications will not be accepted on a promotional basis. Career Credits do not apply.

**HOW TO APPLY**

The Application and the Training and Experience Evaluation will be available on a continuous basis on the Internet. Applicants will respond to questions regarding their ability to meet minimum qualifications, provide their contact information, and take the Training and Experience Evaluation on the Internet.

**DO NOT SUBMIT A STANDARD STATE APPLICATION FORM. THE APPLICATION FORM FOR THE SENIOR STRUCTURAL ENGINEER EXAMINATION IS CONTAINED IN THE INTERNET PROCESS.**

If you do not have Internet access, there are public access Internet terminals in over 150 California public libraries. Contact your local library for information as to where the nearest Internet terminal is located and the policies related to usage. **DO NOT** contact the State Personnel Board or the Employment Development Department for this information. The State Personnel Board and the Employment Development Department do not maintain an up-to-date list of library locations.

**Please note: The State Personnel Board Service Center, located at 801 Capitol Mall, Sacramento, CA, has Internet terminals that are available for public use at no cost.**

For more information, contact the Service Center at (916) 653-1705. If you are not familiar with the Internet, you may have a friend or family member assist you. You may apply and take the examination on the Internet by connecting to:

<http://jobs.ca.gov/CASPB/sup/images/default.asp>

Follow the on-line instructions. **Please note: the Internet system will be unavailable on Tuesdays between 7:00 a.m. and 1:00 p.m., Pacific Standard time, for processing and maintenance.**

**DO NOT** begin the application process on the Internet during this time as your record will NOT be processed. It takes approximately one hour to complete the Application and the Training and Experience Evaluation on the Internet. If you begin the examination before 7:00 a.m., be sure to allow sufficient time to complete the process.

**SPECIAL TESTING  
ARRANGEMENTS**

If you have a disability and need special testing arrangements, call the State Personnel Board's Examination and Selection Services Section at (916) 653-1502, Telecommunications Device for the Deaf (TTY) (916) 654-6336, or via California Relay (Telephone) Service for the deaf or hearing impaired: from TTY phones: 1-(800) 735-2929, for voice phones: 1-(800) 735-2922.

**REQUIREMENTS  
FOR ADMITTANCE  
TO THE  
EXAMINATION**

NOTE: All applicants must meet the education and/or experience requirements as stated on this examination announcement. Candidates must meet these requirements at the time they apply.

**COMPETITION  
RESTRICTIONS**

Competitors, who are eliminated for not meeting the minimum requirements as stated on this examination bulletin, may reapply when the entrance requirements are met.

Unsuccessful competitors who do not attain a minimum rating of 70% must wait 12 months from the date of disqualification before re-applying.

Successful competitors establishing list eligibility for 12 months are restricted from re-applying again during the 12 month eligibility period.

**ELIGIBLE LIST  
INFORMATION**

An open eligible list will be established for the Department of General Services. The names of successful competitors will be merged onto the eligible list in order of final scores regardless of test date. Eligibility expires 12 months after it is established. Competitors must then retest to reestablish eligibility.

**MINIMUM  
QUALIFICATIONS**

**Possession of a valid certificate to use the title of "Structural Engineer" under the statutes regulating the practice of civil engineering in California.**

**And**

**Experience:** Five years of experience in structural engineering work involving the performance of increasingly complex duties, two years of which shall have been in charge of the structural design of major buildings.

**And**

**Education:** Equivalent to graduation from college with major work in civil or architectural engineering. (Additional qualifying experience may be substituted for the required education on a year-for-year basis.)

**NOTE: POSSESSION OF A VALID LICENSE TO USE THE TITLE OF "STRUCTURAL ENGINEER" IS REQUIRED TO PROCEED WITH THE INTERNET EXAMINATION PROCESS.**

**THE POSITION**

A Senior Structural Engineer does the more difficult types of structural engineering work involved in the review of the design of major buildings, such as school buildings, essential service buildings and other structures. Examine plans of important public buildings to determine their ability to withstand earthquake or wind and to safely carry such loads as may be imposed. Visits work under construction to determine whether materials and workmanship comply with the plans and specifications and passes upon the adequacy of inspection provided for the job; examines existing buildings for structural integrity at the request of state and local agencies; gives consulting assistance to architects, structural engineers, contractors, and school authorities regarding approval or disapproval of the work and interpretation of the requirements set up by the State; checks designs, specifications, and drawings; investigates foundation conditions for major buildings and other structures. Offers peer review of outside consultants and Division of State Architect plan reviewers.

Positions are located Statewide.

**TRAINING AND  
EXPERIENCE  
EVALUATION**

The examination will consist of Training and Experience Evaluation weighted 100%. In order to obtain a position on the eligible list, a minimum rating of 70% must be attained.

**A. Knowledge of:**

1. Graphostatics and stress analysis.
2. Strength, use and properties of the materials of building construction.
3. Standard specifications, loadings, and building codes applying to building and other structures.
4. Principles of effective supervision and directing the work of others.

**B. Ability to:**

1. Direct the work of others.
2. Inspect and judge the quality of structural engineering work in the office and field.
3. Analyze situations accurately and adopt an effective course of action.
4. Write clear and accurate reports and technical specifications.

**VETERANS'  
PREFERENCE**

Veterans' Preference Credit will not be granted in this examination since it does not qualify as an entrance examination under the law.

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**GENERAL INFORMATION**

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**If you meet the requirements** stated on the reverse, you may take this examination, which is competitive. Possession of the entrance requirements does not assure a place on the eligible list. Your performance in the examination described on the other side of this bulletin will be compared with the performance of the others who take this test, and all candidates who pass will be ranked according to their scores.

**The Department of General Services** reserves the right to revise the examination plan to better meet the needs of the service if the circumstances under which this examination was planned change. Such revision will be in accordance with the civil service law and rules and all competitors will be notified.

**Examination Locations:** When a written test is part of the examination, it will be given in such places in California as the number of candidates and conditions warrant as determined by the departmental testing office. Ordinarily, interviews are scheduled in Sacramento, San Francisco and Los Angeles. However, locations of interviews may be limited or extended as conditions warrant.

**Eligible Lists:** Eligible lists established by competitive examination, regardless of date, must be used in the following order: 1) subdivisional promotional, 2) departmental promotional, 3) multidepartmental promotional, 4) servicewide promotional, 5) departmental open, 6) open. When there are two lists of the same kind, the older must be used first. Eligible lists will expire from one to four years unless otherwise stated on this bulletin.

**General Qualifications:** Candidates must possess essential personal qualifications including integrity, initiative, dependability, good judgment, and ability to work cooperatively with others; and a state of health consistent with the ability to perform the assigned duties of the class. A medical examination may be required. In open exams investigation may be made of employment records and personal history--fingerprinting may be required.

**Interview Scope:** If an interview is conducted, in addition to the scope described on this bulletin, the panel will consider education, experience, personal development, personal traits, and fitness. In appraising experience, more weight will be given to the depth, breadth and recency of pertinent experience and evidence of the candidate's ability to accept and fulfill increasing responsibilities than to the length of his/her experience. Evaluation of a candidate's personal development will include consideration of his/her efforts toward self-development.

**Veterans' Preference:** If this examination is an entrance examination as defined in Government Code Section 18973.5, veterans' preference credits will be added to the final score of all competitors who are successful in this examination and who qualify for, and have requested these points. Due to changes in the law, which were effective January 1, 1996, VETERANS WHO HAVE ACHIEVED PERMANENT CIVIL SERVICE STATUS ARE NOT ELIGIBLE TO RECEIVE VETERANS' CREDITS. Directions for applying for veterans' preference are on the Veterans' Preference Application form which is available from the State Personnel Board office and the Department of Veterans Affairs, P. O. Box 1559, Sacramento, CA 95807.

**High School Equivalence:** Equivalent to completion of the 12<sup>th</sup> grade may be demonstrated in any one of the following ways: 1) passing the General Educational Development (GED) Test; 2) completion of 12 semester units of college-level work; 3) certification from the State Department of Education, a local school board, or high school authorities that the candidate is considered to have education equivalent to graduation from high school; or 4) for clerical and accounting classes, substitution of business college work in place of high school on a year-for-year basis.

**CALIFORNIA DEPARTMENT OF GENERAL SERVICES    ♦    OFFICE OF HUMAN RESOURCES**  
**MAILING ADDRESS: P.O. BOX 989052   ♦   West Sacramento, CA 95798-9052   ♦   Telephone (916) 376-5400**  
**STREET ADDRESS: 707 Third Street, 7<sup>TH</sup> Floor   ♦   West Sacramento, CA 95605**

TDD is a Telecommunications Device for the Deaf and is reachable only from telephones equipped with a TDD device.  
California Relay (Telephone) Service for the Deaf or Hearing Impaired:  
From TDD phones -800-735-2929   ♦   Voice 1-800-735-2922